AUTHOR INDEX OF VOLUME 61*

Argyris, J. and M. Haase, An engineer's guide to soliton phenomena:	
Application of the finite element method	(1) $71-121$
Assamoi, L., see Tabarrock, B.	(3) 303 - 321
Babuška, I. and A. Miller, A feedback element method with a posteriori error estimation: Part I. The finite element method and some basic properties of	
the a posteriori error estimator	(1) 1 - 40
Benaroya, H., see Rehak, M.L.	(1) $61 - 70$
Bergan, P.G., see Felippa, C.A.	(2) 129 - 160
Devloo, P., J.T. Oden and T. Strouboulis, Implementation of an adaptive	
refinement technique for the SUPG algorithm	(3) 339 - 358
Dimaggio, F.L., see Rehak, M.L.	(1) $61 - 70$
Elishakoff, I., see Rehak, M.L.	(1) 61 - 70
Felippa, C.A. and P.G. Bergan, A triangular bending element based on an	
energy-orthogonal free formulation	(2) 129 - 160
Ferencz, M., see Hughes, T.J.R.	(3) 215 - 248
Haase, M., see Argyris, J.	(1) 71 – 121
Hallquist, O., see Hughes, T.J.R.	(3) $215 - 248$
Hughes, T.J.R., R.M. Ferencz and J.O. Hallquist, Large-scale vectorized implicit calculations in solid mechanics on a CRAY X-MP/48 utilizing EBE	
preconditioned conjugate gradients	(2) 215 - 248
Karageorghis, A., Numerical solution of a shallow dam problem by a	
boundary element method	(3) 265 - 276
Lee, J.H.W., J. Peraire and O.C. Zienkiewicz, The characteristic-Galerkin	
method for advection-dominated problems - an assessment	(3) $359 - 369$
Leroy, Y., see Ortiz, M.	(3) $189 - 214$
Löhner, R., An adaptive finite element scheme for transient problems in CFD	(3) 323 $-$ 338

^{*} The issue number is given in front of the page numbers.

Author Index

Martin, W.A., see Zografos, A.I.	(2) 177 - 187
Miller, A., see Babuška, I.	(1) 1 - 40
Needleman, A., see Ortiz, M.	(3) 189 – 214
Noor, A.K. and J.M. Peters, Vibration analysis of laminated anisotropic shells	
of revolution	(3) 277 - 301
Nour-Omid, B. and K.C. Park, Solving structural mechanics problems on the	
CalTech Hypercube machine	(2) 161 - 176
Oden, J.T., see Devloo, P.	(3) 339 - 358
Ortiz, M., Y. Leroy and A. Needleman, A finite element method for localized	
failure analysis	(2) 189 - 214
Park, K.C., see Nour-Omid, B.	(2) 161 – 176
Peraire, J., see Lee, J.H.W.	(3) 359 $-$ 369
Peters, J.M., see Noor, A.K.	(3) 277 $-$ 301
Pinsky, P.M., A finite element formulation for elastoplasticity based on a	
three-field variational equation	(1) $41 - 60$
Rehak, M.L., F.L. Dimaggio, H. Benaroya and I. Elishakoff, Random	
vibrations with MACSYMA	(1) 61 - 70
Służalec, A., Thermo-elastic stresses within a rectangular conductor carrying an	
alternating current	(3) $253 - 264$
Strouboulis, T., see Devloo, P.	(3) 339 $-$ 358
Sunderland, J.E., see Zografos, A.I.	(2) $177 - 187$
Tabarrok, B. and L. Assamoi, A new variational principle in elastodynamics	(3) 303 – 321
Zienkiewicz, O.C., see Lee, J.H.W.	(3) $359 - 369$
Zografos, A.I., W.A. Martin and J.E. Sunderland, Equations of properties as a	
function of temperature for seven fluids	(2) $177 - 187$

SUBJECT INDEX OF VOLUME 61*

Boundary element methods	
Numerical solution of a shallow dam problem by a boundary element method, A. Karageorghis	(3) 265 – 276
Calculus of variations	
A new variational principle in elastodynamics, B. Tabarrok and L. Assamoi	(3) 303 – 321
Coupled problems	
Thermo-elastic stresses within a rectangular conductor carrying an alternating current, A. Służalec	(3) 253 – 264
Dynamics	
Random vibrations with MACSYMA, M.L. Rehak, F.L. Dimaggio, H. Benaroya and I. Elishakoff A new variational principle in elastodynamics, B. Tabarrok and L. Assamoi	(1) 61 - 70 (3) 303 - 321
Elasticity	
A new variational principle in elastodynamics, B. Tabarrok and L. Assamoi Thermo-elastic stresses within a rectangular conductor carrying an alternating	(3) 303 – 321
current, A. Służalec	(3) 253 - 264
Electromagnetic fields	
Thermo-elastic stresses within a rectangular conductor carrying an alternating current, A. Służalec	(3) 253 – 264

Finite element and matrix methods

A feedback element method with a posteriori error estimation: Part I. The

^{*} The issue number is given in front of the page numbers.

finite element method and some basic properties of the a posteriori error	(1) 1 40
estimator, I. Babuška and A. Miller A finite element formulation for elastoplasticity based on a three-field	(1) 1 - 40
variational equation, P.M. Pinsky	(1) 41 - 60
An engineer's guide to soliton phenomena: Application of the finite element	(1) 41 - 00
method, J. Argyris and M. Haase	(1) $71 - 121$
A triangular bending element based on an energy-orthogonal free formulation,	(1) $/1 - 121$
C.A. Felippa and P.G. Bergan	(2) 129 - 160
Solving structural mechanics problems on the CalTech Hypercube machine, B.	(2) 129 - 100
Nour-Omid and K.C. Park	(2) $161 - 176$
A finite element method for localized failure analysis, M. Ortiz, Y. Leroy and	(2) 101 - 170
A. Needleman	(2) 189 - 214
Large-scale vectorized implicit calculations in solid mechanics on a CRAY X-	(2) 10) 214
MP/48 utilizing EBE preconditioned conjugate gradients, T.J.R. Hughes,	
R.M. Ferencz and J.O. Hallquist	(2) 215 $-$ 248
Vibration analysis of laminated anisotropic shells of revolution, A.K. Noor	(2) 213 240
and J.M. Peters	(3) 277 - 301
An adaptive finite element scheme for transient problems in CFD, R. Löhner	(3) 323 $-$ 338
Implementation of an adaptive refinement technique for the SUPG algorithm,	(0) 020 000
P. Devloo, J.T. Oden and T. Strouboulis	(3) 339 $-$ 358
The characteristic-Galerkin method for advection-dominated problems - an	(-,
assessment, J.H.W. Lee, J. Peraire and O.C. Zienkiewicz	(3) 359 $-$ 369
Thermo-elastic stresses within a rectangular conductor carrying an alternating	•
current, A. Służalec	(3) 253 - 264
Fluid mechanics	
An adaptive finite element scheme for transient problems in CED P. Löhner	(3) 323 – 338
An adaptive finite element scheme for transient problems in CFD, R. Löhner Implementation of an adaptive refinement technique for the SUPG algorithm,	(3) 323 - 336
P. Devloo, J.T. Oden and T. Strouboulis	(3) 339 - 358
The characteristic-Galerkin method for advection-dominated problems – an	(3) 339 - 330
assessment, J.H.W. Lee, J. Peraire and O.C. Zienkiewicz	(3) 359 - 369
assessment, 3.11.W. Lee, 3. Teraire and O.C. Zienkiewicz	(3) 337 307
Heat and diffusion	
Thermo-elastic stresses within a rectangular conductor carrying an alternating	
current, A. Służalec	(3) 253 - 264
Numerical solution of a shallow dam problem by a boundary element method,	
A. Karageorghis	(3) 265 - 276
Implementation of an adaptive refinement technique for the SUPG algorithm,	
P. Devloo, J.T. Oden and T. Strouboulis	(3) 339 - 358

Least squares method

Equations of properties as a function of temperature for seven fluids, A.I. Zografos, W.A. Martin and J.E. Sunderland (2) 177-187

Material physics

Equations of properties as a function of temperature for seven fluids, A.I.

Zografos, W.A. Martin and J.E. Sunderland

(2) 177 – 187

Numerical solution procedures

- A feedback element method with a posteriori error estimation: Part I. The finite element method and some basic properties of the a posteriori error estimator, I. Babuška and A. Miller

 (1) 1-40
- Random vibrations with MACSYMA, M.L. Rehak, F.L. Dimaggio, H. Benaroya and I. Elishakoff (1) 61 70
- Large-scale vectorized implicit calculations in solid mechanics on a CRAY X-MP/48 utilizing EBE preconditioned conjugate gradients, T.J.R. Hughes, R.M. Ferencz and J.O. Hallquist (2) 215 248

Plasticity

- A finite element formulation for elastoplasticity based on a three-field variational equation, P.M. Pinsky

 (1) 41 60
- A finite element method for localized failure analysis, M. Ortiz, Y. Leroy and A. Needleman (2) 189-214

Shells and plates

- A triangular bending element based on an energy-orthogonal free formulation, C.A. Felippa and P.G. Bergan

 (2) 129-160

 Vibration analysis of laminated anisotropic shells of revolution A K. Noor
- Vibration analysis of laminated anisotropic shells of revolution, A.K. Noor and J.M. Peters

 (3) 277 301

Solutions of ordinary and partial differential equations

An engineer's guide to soliton phenomena: Application of the finite element method, J. Argyris and M. Haase

(1) 71-121

Structural mechanics

- Solving structural mechanics problems on the CalTech Hypercube machine, B. Nour-Omid and K.C. Park
- (2) 161 176

Transport phenomena

- The characteristic-Galerkin method for advection-dominated problems an assessment, J.H.W. Lee, J. Peraire and O.C. Zienkewicz
- (3) 359 369

Wave motion

- An engineer's guide to soliton phenomena: Application of the finite element method, J. Argyris and M. Haase
- (1) 71 121

